

II. *An Account of a Collection of Rhopalocera made at Zomba in British Central Africa.* By PERCY I. LATHY. Communicated by CHARLES J. GAHAN, M.A.

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PLATE III.

DURING the past two years Mr. H. J. Adams, F.E.S., has been receiving consignments of Lepidoptera from Zomba; as the collection contains a few novelties, and some species which have not been hitherto recorded from the locality, an account of it may perhaps be of interest.

In all, one hundred and seventy-six species of Rhopalocera were obtained, and considering this was the work of an untrained collector, it was I think a satisfactory result.

The principal feature of the collection, as in others made in the same locality, is the number of Charaxes, it containing no less than twenty species, many of them rare, and one, *C. etesipe*, Godt., that has been hitherto regarded as a West African species.

The females of *Mylothris rubricosta*, Mab., and *Papilio pelodurus*, Butl., are also in the collection.

My thanks are due to Dr. Butler and Mr. Heron of the Natural History Museum for their kind assistance in enabling me to determine many of the species, and to Dr. Jordan for his help with the Charaxes.

The arrangement followed in this list is that of Dr. Holland for the Hesperiidæ, and Prof. Aurivillius for the other families.

1. *Danais chrysippus*.

Papilio chrysippus, Linn., Mus. Lud. Ulr., p. 263 (1764).

2. *Danais dorippus*.

Euplœa dorippus, Klug., Symb. Phys., t. 48, f. 1-5 (1845).

3. *Amauris dominicanus*.

Amauris dominicanus, Trim., Trans. Ent. Soc. Lond., 1879, p. 323.

4. *Amauris ochlea*.

Danais ochlea, Boisd., Voy. Deleg., ii, p. 589 (1847).

5. *Amauris whytei*.
Amauris whytei, Butl., P. Z. S. 1893, p. 644.
6. *Melanitis leda*.
Papilio leda, Linn., Syst. Nat., i, 2, p. 773, n. 151
(1767).
7. *Melanitis libya*.
Melanitis libya, Dist., Ann. Mag. Nat. Hist., ser. 5,
vol. x, p. 405 (1882).
8. *Gnophodes diversa*.
Gnophodes diversa, Butl., Ann. Mag. Nat. Hist., ser.
5, vol. v, p. 333 (1880).
9. *Monotrichtis ena*.
Mycalesis ena, Hew., Ent. Mo. Mag., 14, p. 107 (1877).
10. *Monotrichtis rhacotis*.
Mycalesis rhacotis, Hew., Ex. Butt., iii, Myc., t. 6,
p. 34 (1866).
11. *Monotrichtis selousi*.
Mycalesis selousi, Trim., Trans. Ent. Soc. Lond., 1895,
p. 183, t. 5, f. 2, 2a.
12. *Monotrichtis safitza*.
Mycalesis safitza, Hew., Gen. D. L. p. 394, n. 10, note.
13. *Monotrichtis evenus*.
Mycalesis evenus, Hopff., Ber. Verh. Ak. Berl., 1855,
p. 641, n. 14.
14. *Monotrichtis funebris*.
Satyryus funebris, Guér., Icon. Regne. Anim. Ins.
texte, p. 488 (1844).
15. *Henotesia perspicua*.
Mycalesis perspicua, Trim., Trans. Ent. Soc. Lond.,
1873, p. 104, t. i, f. 3.
16. *Henotesia simonsii*.
Mycalesis simonsii, Butl., Ann. Mag. Nat. Hist., ser. 4,
xix, p. 458 (1877).
17. *Physcænura pione*.
Physcænura pione, Godm., P. Z. S. 1880, p. 183, t.
19, f. 2, 3.

18. *Neocænynra gregorii*.
Neocænynra gregorii, Butl., P. Z. S. 1894, p. 560, t. 36, f. 2.
19. *Pardopsis punctatissima*.
Acræa punctatissima, Boisd., Faune. Mad., p. 31, n. 5, t. 6, f. 2 (1833).
20. *Acræa insignis*.
Acræa insignis, Dist., P. Z. S. 1880, t. 19, f. 6.
21. *Acræa acara*.
Acræa acara, Hew., Ex. Butt., iii, Acr., t. 3, f. 19, 20 (1865).
22. *Acræa anemosa*.
Acræa anemosa, Hew., Ex. Butt., iii, Acr., t. 3, f. 14, 15.
23. *Acræa areca*.
Acræa areca, Mab., Bull., Soc. Ent., France, 1888, p. 169.
24. *Acræa asema*.
Acræa asema, Hew., Ent. Mo. Mag., xiv, p. 52 (1877).
25. *Acræa acrita*.
Acræa acrita, Hew., Ex. Butt., iii, Acr., t. 3, f. 18, (1865).
26. *Acræa guillemei*.
Acræa guillemei, Oberth., Etudes d'Ent., xvii, p. 19, t. 1, f. 1 (1893).
27. *Acræa caldarena*.
Acræa caldarena, Hew., Ent. Mo. Mag., xiv, p. 52 (1877).
28. *Acræa nero*.
Telchinia nero, Butl., Ann. Mag. Nat. Hist., t. 5, xii, p. 102 (1883).
29. *Acræa doubledayi*.
Acræa doubledayi, Guér., Lef. Voy. Abyss., vi, p. 378 (1849).
30. *Acræa natalica*.
Acræa natalica, Boisd., Voy. Deleg., p. 590 (1847).

31. *Acræa terpsichore*.
Papilio terpsichore, Linn., Mus. Ulr., p. 222 (1764).
32. *Acræa excelsior*.
Acræa excelsior, Sharpe, P. Z. S. 1891, p. 192, t. 17,
 f. 3.
33. *Acræa vinidia*.
Acræa vinidia, Hew., Ent. Mo. Mag., xi, p. 130
 (1874).
34. *Acræa cabira*.
Acræa cabira, Hopff, Ber. Verh. Akad. Berl., 1855,
 p. 640, n. 7.

A good series including yellow and fulvous forms as well as examples which connect the two varieties; consequently the name *apecida*, Oberth., which applies to the extreme fulvous form must sink as a synonym.

35. *Acræa encedon*.
Papilio encedon, Linn., Mus. Lud. Ulr., p. 244 (1764).
36. *Acræa csebria*.
Acræa csebria, Hew., Ex. Butt., ii, Acr., t. 2, f. 11,
 12 (1861).
37. *Atella phalantha*.
Papilio phalantha, Dru., Ill. Ex. Ent., i, t. 21, f. 1, 2
 (1773).
38. *Hypanartia schæneia*.
Eurema schæneia, Trim., Trans. Ent. Soc. Lond.,
 1879, p. 329.
39. *Pyrameis cardui*.
Papilio cardui, Linn., Faun. Suec., p. 276, n. 1054
 (1761).
40. *Precis madagascariensis*.
Precis madagascariensis, Guén., Vinson, Voy. Mad.,
 Lep., p. 37 (1864).
41. *Precis clelia*.
Papilio clelia, Cram., Pap. Ex., i, p. 33, t. 21, f.
 E. F. (1775).
42. *Precis cebrene*.
Junonia cebrene, Trim., Trans. Ent. Soc. Lond., 1870
 p. 353.

43. *Precis natalensis*.

Precis natalensis, Stgr., Exot. Schm., p. 101 (1885).

A long series including var. *hib. sesamus*, Trim. and the intermediate form figured by Trimen in S. Afr., Butt., t. 4, f. 4.

44. *Precis simia*.

Precis simia, Wallengr., Lep. Rhop. Caffr., p. 26 (1857).

45. *Precis trimeni*.

Junonia trimeni, Butl., P. Z. S. 1893, p. 651, t. 60, f. 4.

46. *Precis cuama*.

Junonia cuama, Hew., Ex. Butt., iii, Jun., t. 1, f. 1 (1864).

47. *Precis tukuoa*.

Salamis tukuoa, Wallengr., Lep. Rhop. Caffr., p. 25 (1857).

48. *Precis ceryne*.

Salamis ceryne, Boisd., Voy. Deleg., ii, p. 592 (1847).

49. *Precis laodora*.

Vanessa laodora, Godt., Enc. Méth., ix, p. 314, n. 38 (1819).

50. *Precis actia*.

Precis actia, Dist., P. Z. S. 1880, p. 185, t. 19, f. 7.

51. *Precis aurorina*.

Junonia aurorina, Butl., P. Z. S. 1893, p. 651, t. 60, f. 3.

52. *Precis tugela*.

Precis tugela, Trim., Trans. Ent. Soc. Lond., 1879, p. 334.

53. *Precis archesia*.

Papilo archesia, Cram., Pap. Ex., iii, p. 44, t. 219, f. D. E. (1779).

Several examples in all of which the common rufous band is much narrower than in specimens from Natal; var. *aestiv. pelasgis*, Godt., ab. *chapunga*, Hew., was also obtained.

54. *Precis elgiva*.
Junonia elgiva, Hew., Ex. Butt., iii, Jun., t. 1, f. 1
 (1864).
55. *Precis natalica*.
Precis natalica, Feld., Wien. Ent. Mon., iv, p. 106,
 n. 65 (1860).
56. *Precis nachtigalii*.
Precis nachtigalii, Dewitz, Nova Acta Akad. Natur.
 Halle, 1879, p. 194, t. 1, f. 16.
57. *Precis artaxia*.
Junonia artaxia, Hew., Ex. Butt., iii, Jun., t. 1,
 f. 6 (1864).
58. *Catacroptera cloanthe*.
Papilio cloanthe, Cram., Pap. Ex., iv, p. 93, t. 338,
 f. A. B. (1781).
59. *Salamis anacardii*.
Papilio anacardii, Linn., Mus. Lud. Ulr., p. 236
 (1764).
60. *Hypolimnna misippus*.
Papilio misippus, Linn., Mus. Lud. Ulr., p. 264
 (1764).
61. *Hypolimnna mima*.
Diadema mima, Trim., Trans. Linn. Soc., xxvi, p. 506,
 note, t. 43, f. 7 (1869).
62. *Hypolimnna wahlbergi*.
Diadema wahlbergi, Wallengr., Lep. Rhop. Caffr.,
 p. 27 (1857).
63. *Eurytela angustata*.
Eurytela angustata, Auriv., Ent. Tidskr., 15, p. 278
 (1894).
64. *Eurytela angulata*.
Eurytela angulata, Auriv., Rhop. Æthiopica, p. 154
 (1898).
65. *Byblia acheloia*.
Hypanis acheloia, Wallengr., Lep. Rhop. Caffr., p. 29
 (1857).

66. *Crenis morantii*.
Crenis morantii, Trim., Trans. Ent. Soc. Lond., 1881,
 p. 439.
67. *Crenis boisduvali*.
Crenis boisduvali, Wallengr., Lep. Rhop. Caffr., p. 30
 (1857).
68. *Crenis mafixæ*.
Crenis mafixæ, Stgr., Iris, 10, p. 358 (1898).
69. *Cyrestis sublineata*, sp. nov. (Plate III, fig. 1.)
 Nearly allied to *C. elegans*, Boisd., from which it differs
 in the more produced apex of the forewing, the more
 pronounced black and orange markings of both wings
 above, and in the linear black markings of hindwing being
 similar on both surfaces.
 Exp. ♂ 52–58 mm., ♀ 64 mm.
 This species appears to be rather rare, only six specimens
 having been obtained.
70. *Neptis saclava*.
Limenitis saclava, Boisd., Faune Mad., p. 49, n. 1
 (1833).
71. *Neptis agatha*.
Papilio agatha, Cram., Pap. Ex., iv, p. 76, t. 327,
 f. A. B. (1782).
72. *Neptis incongrua*.
Neptis incongrua, Butl., P. Z. S. 1896, p. 112, t. 6,
 f. 2.
 A single male of this fine species was received.
73. *Pseudacræa expansa*.
Pseudacræa expansa, Butl., Ann. Mag. Nat. Hist. (5)
 2, p. 177 (1878).
74. *Pseudacræa tarquinia*.
Panopea tarquinia, Trim., Trans. Ent. Soc. Lond.,
 1868, p. 79, t. 5, f. 3.
75. *Hamanumida dædalus*.
Papilio dædalus, Fabr., Syst. Ent., p. 482, n. 174
 (1775).
76. *Euphædra neophron*.
Romaleosoma neophron, Hopff., Ber. Verh. Ak. Berl.,
 1855, p. 640, n. 9.

77. *Euptera kinugnana*.
Thaleropsis kinugnana, Gr. Sm., Ann. Mag. Nat. Hist., ser. 6, vol. iii, p. 133 (1889).
78. *Charaxes natalensis*.
Charaxes natalensis, Stgr., Ex. Schm., i, p. 169, (1886).
79. *Charaxes flavifasciatus*.
Charaxes flavifasciatus, Butl., P. Z. S. 1895, p. 251.
80. *Charaxes saturnus*.
Charaxes saturnus, Butl., P. Z. S. 1865, p. 624, t. 36, f. 1.

The series included typical *saturnus*, and the form named *laticinctus* by Dr. Butler.

81. *Charaxes geminus*.
Charaxes geminus, Rothsch., Nov. Zool., vii, p. 427 (1900).

This is the eastern form of *C. pollux*, Cram.

82. *Charaxes druceanus*.
Charaxes druceanus, Butl., Cist. Ent., i, p. 4, n. 1 (1869).

Two ♂♂ and three ♀♀ of this beautiful species.

83. *Charaxes etesipe*.
Nymphalis etesipe, Godt., Enc. Méth., ix, p. 355 (1823).

A single specimen of this common West African species, *C. tavetensis*, Rothsch., the form one would have expected from this locality, was not received.

84. *Charaxes penricei*. (Plate III, fig. 2.)
Charaxes penricei, Rothsch., Nov. Zool., vii, p. 460 (1900).

One ♂ only, this being I believe the second specimen known to science, the other being in Coll. Rothschild.

85. *Charaxes achæmenes*.
Charaxes achæmenes, Feld., Reise Nov. Lep., iii, p. 446, t. 59, f. 6, 7 (1867).

A good series of both sexes.

86. *Charaxes lasti*.

Charaxes lasti, Gr. Sm., Ann. Mag. Nat. Hist., ser. vi,
3, p. 131 (1889).

Eleven ♂♂ and seven ♀♀ of this rather scarce species, including the form *macclounii*, Butl., and intermediate examples.

87. *Charaxes azota*.

Philognoma azota, Hew., Ent. Mo. Mag., xiv, p. 82
(1877).

This series includes typical *azota*, and the forms described by Butler as *calliclea*.

88. *Charaxes baumanni*.

Charaxes baumanni, Rogenh., Verh. 7, bot. Ger. Wien.,
xli, p. 564 (1891).

A good series of both sexes.

89. *Charaxes etheocles*.

Papilio etheocles, Cram., Pap. Exot., ii, p. 34, t. 119,
f. D. E. (1777).

90. *Charaxes ethalion*.

Charaxes ethalion, Boisd., Voy. Deleg., ii, p. 593
(1847).

91. *Charaxes guderiana*.

Nymphalis guderiana, Dewitz, Nova Acta Akad.
Naturf. Halle, 1879, p. 200, t. 2, f. 18.

This species appears to be common at Zomba, as a large number of males were sent, and five of the opposite sex.

92. *Charaxes bohemanni*.

Charaxes bohemanni, Feld., Wien. Ent. Mon.,ⁱⁱⁱ iii,
321, t. 6, f. 3 (1859).

93. *Charaxes cithæron*.

Charaxes cithæron, Feld., Wien. Ent. Mon., iii,
p. 398, t. 8, f. 2, 3 (1859).

94. *Charaxes candiope*.

Nymphalis candiope, Godt., Enc. Méth., ix, p. 353
(1819).

95. *Charaxes varanes*.

Papilio varanes, Cram., Pap. Exot., ii, p. 100, t. 160, f. D. E. (1777).

96. *Charaxes leoninus*. (Plate III, fig. 3.)

Charaxes leoninus, Butl., P. Z. S. 1895, p. 253, t. 15, f. 2.

Five ♂♂ and one ♀ of this rare species.

97. *Charaxes eupale*.

Papilio eupale, Dru., Ill. Ex. Ent., iii, t. 6, f. 3 (1782).

A pair which belong to form *dilutus*, Rothsch.

98. *Abisara delicata*, sp. nov. (Plate III, fig. 4.)

♂ Upperside. Forewing white with slight greyish suffusion near base; apical half blackish-brown, containing a narrow white subapical band; inner edge of apical patch strongly curved; costa brown. Hindwing white with wide bluish-grey suffusion at base and along inner margin; three ochreous patches extending from anal angle to base of tail; two blue centred, yellow-ringed black spots above upper median nervule, these surrounded with bluish-grey suffusion; outer margin narrowly edged with black.

Underside. As above but bluish-grey suffusion replaced by pale brown, that at the base outwardly edged with darker; apical half of forewing paler.

♀ Similar to male, but slightly paler and apex of forewing more rounded.

Exp. ♂ 40 mm., ♀ 40-44 mm.

Nearly allied to *A. rogerii*, Druce, but the white area of both wings much more extended.

99. *Alæna nyassæ*.

Alæna nyassæ, Hew., Ent. Mo. Mag., xiv, p. 6 (1877).

The typical form and ab. *ochracea*, Butl., were both obtained.

100. *Pentila amenaida*.

Pentila amenaida, Hew., Ex. Butt., v, Pent. and Lipt., t. 2, f. 4-7 (1873).

101. *Pentila peucetia*.

Pentila peucetia, Hew., Ex. Butt., iii, Pent. and Lipt., t. 1, f. 3 (1866).

102. *Mimacræa marshalli*.
Mimacræa marshalli, Trim., Trans. Ent. Soc. Lond.,
1898, f. 13, t. 1, f. 9.
103. *Teriomima freya*.
Durbania freya, Gr. Sm. and Kirby, Rhop. Ex., ii,
Afr. Lyc., t. 25, f. 1, 2 (1894).
104. *Teriomima aslanga*.
? *Liptena aslanga*, Trim., Trans. Ent. Soc. Lond., 1873,
p. 117.
105. *Lachnocnema bibulus*.
Hesperia bibulus, Fabr., Ent. Syst., iii, 1, p. 307, n. 163
(1793).
106. *Deudorix diocles*.
Deudorix diocles, Hew., Ill. D. L. Suppl., p. 12, n. 31,
t. 5, f. 55, 56 (1869).
107. *Deudorix antalus*.
Dipsas antalus, Hopff., Ber. Vert. Ak. Berl., 1855,
p. 641, n. 15.
108. *Hypolycæna philippus*.
Hesperia philippus, Fabr., Ent. Syst., iii, 1, p. 283, n.
87 (1793).
109. *Hypolycæna cæculus*.
Jolaus cæculus, Hopff., Ber. Verh. Ak. Berl., 1855,
p. 642, n. 17.
110. *Jolaus lalos*. (Plate III, fig. 5.)
Argiolaus lalos, Druce, Ann. Mag. Nat. Hist., vi, 17,
p. 286 (1896).
111. *Spindasis nyassæ*.
Aphnæus nyassæ, Butl., Ent. Mo. Mag., xx, p. 250
(1884).
112. *Axiocerses punicea*.
Axiocerses punicea, Gr. Sm., Ann. Mag. Nat. Hist.,
ser. vi, 3, p. 134 (1889):
113. *Leptomyrina hirundo*.
Thecla hirundo, Wallengr., Lep. Rhop. Caffr., p. 35,
n. 4 (1857).

114. *Lycænesthes adherbal*.
Lycæna adherbal, Mab., Bull. Soc. Zool. France, 1877,
 p. 217.
115. *Cupido poggei*.
Plebeius poggei, Dewitz, N. Acta Ac. N. Cur. 41 : 2,
 p. 205, t. 26, f. 7 (1879).
116. *Cupido falkensteini*.
Plebeius falkensteinii, Dewitz, Nova Acta Leop.: Carol.
 Akad. Naturf., xli, ii, n. 2, p. 204, t. 25, f. 5
 (1879).
117. *Cupido lingeus*.
Papilio lingeus, Cram., Pap. Ex., iv, p. 176, t. 379,
 f. F. G. (1781).
118. *Cupido plinius*.
Hesperia plinius, Fabr., Ent. Syst., iii, 1, p. 284, n. 92
 (1793).
119. *Cupido moriqua*.
Lycæna moriqua, Wallengr., Lep. Rhop. Caffr., p. 39,
 n. 9 (1857).
120. *Cupido sichela*.
Lycæna sichela, Wallengr., Lep. Rhop. Caffr., p. 37
 (1857).
121. *Cupido bæticus*.
Papilio bæticus, Linn., Syst. Nat., i, 2, p. 789, n. 226
 (1767).
122. *Cupido malathana*.
Lycæna malathana, Boisd., Faune Mad., p. 25 (1833).
123. *Cupido cissus*.
Polyommatus cissus, Godt., Enc. Méth., ix, p. 683, n.
 210 (1823).
124. *Cupido peculiaris*.
Lycæna peculiaris, Rogenh., in Baumann Usambara,
 p. 331 (1891).
125. *Leptosia alcesta*.
Papilio alcesta, Cram., Pap. Ex., iv, p. 175, t. 379,
 f. A. (1781).

126. *Herpænia eriphia*.
Pieris eriphia, Godt., Enc. Méth., ix, p. 157, n. 134
 (1819).
127. *Mylothris agathina*.
Papilio agathina, Cram., Pap. Ex., iii, p. 76, t. 237,
 f. D. E. (1782).
128. *Mylothris rüppellii*.
Pieris rüppellii, Koch, Indo. Aust. Lep. Fauna, p. 88
 (1865).
129. *Mylothris rubricosta*.
Pieris rubricosta, Mab., Ann. Soc. Ent. France, 1890,
 p. 28.
- Two ♂♂ and six ♀♀ of this rare species. The female differs from the male in its larger size, greater extent of black suffusion at apex of forewing, and much larger marginal spots in both wings.
130. *Appias epaphia*.
Papilio epaphia, Cram., Pap. Ex., iii, p. 26, t. 207,
 f. D. F. (1779).
131. *Pieris severina*.
Papilio severina, Cram., Pap. Ex., iv, p. 95, t. 338,
 f. G. H. (1781).
132. *Pieris mesentina*.
Papilio mesentina, Cram., Pap. Ex., iii, p. 140, t. 270,
 f. A. B. (1780).
133. *Pieris pigea*.
Pieris pigea, Boisd., Spec. Gen. Lep., 1, p. 523 (1836).
 Three ♂♂ all belonging to var. *hibern. alba*, Wallengr.
134. *Teracolus mutans*.
Teracolus mutans, Butl., Ann. Mag. Nat. Hist., ser. 4,
 xix, p. 459 (1877).
135. *Teracolus eris*.
Pontia eris, Klug., Symb. Phys., t. 6, f. 15, 16 (1829).
136. *Teracolus regina*.
Anthocharis regina, Trim., Trans. Ent. Soc. Lond., ser.
 3, i, p. 520 (1863).

137. *Teracolus antevippe*.
Anthocharis antevippe, Boisd., Sp. Gen., i, p. 572, n. 18, t. 18, f. 3 (1836).
138. *Teracolus emini*.
Teracolus emini, Butl., Ann. Mag. Nat. Hist., ser. 6, vii, p. 47 (1891).
139. *Eronia argia*.
Papilio argia, Fabr., Syst. Ent., p. 470, n. 118 (1175).
140. *Eronia thalassina*.
Pieris thalassina, Boisd., Spec. Gen., i, p. 443, n. 8 (1836).
141. *Catopsilia florella*.
Papilio florella, Fabr., Syst. Ent., p. 479, n. 159 (1775).
142. *Terias senegalensis*.
Terias senegalensis, Boisd., Spec. Gen., 1, p. 672 (1836).
143. *Terias hapale*.
Terias hapale, Mab., Le Natural., 2, p. 99 (1882).
144. *Terias desjardinsii*.
Xanthidia desjardinsii, Boisd., Faun. Mad., p. 22, n. 3, t. 2, f. 6 (1833).
145. *Terias brigitta*.
Papilio brigitta, Cram., Pap. Ex., iv, p. 82, t. 331, f. B. C. (1780).
146. *Colias electra*.
Papilio electra, Linn., Syst. Nat., xii, p. 764 (1767).
147. *Papilio cenea*.
Papilio cenea, Stoll., Suppl. Cram., p. 134, t. 29, f. 1, 1a (1791).
- Only a single female was received. This agrees best with ab. ♀ *niobe*, Auriv., as the cellular bar, subapical band, and submarginal spots are orange-brown, and the subapical spot is wanting. Aurivillius places *niobe* as an ab. ♀ of *dardanus*, Brown, the western form of this *Papilio*.
148. *Papilio echerioides*.
Papilio echerioides, Trim., Trans. Ent. Soc. Lond., 1868, p. 72, t. 6, f. 1, 2.

149. *Papilio pelodurus*.
Papilio pelodurus, Butl., P. Z. S. 1895, p. 270, fig. (1896).
 A good series, including two females. The differences between the sexes are chiefly on the underside of the hindwing, and are of the same character as in the sexes of *P. hesperus*, Westw.
150. *Papilio lyæus*.
Papilio lyæus, Doubl., Ann. Mag. Nat. Hist., xvi, p. 178 (1845).
151. *Papilio brontes*.
Papilio brontes, Godm., P. Z. S. 1885, p. 450.
152. *Papilio demodocus*.
Papilio demodocus, Esp., Aus. Schmett., p. 205, t. 51, f. 1 (1798).
153. *Papilio angolanus*.
Papilio angolanus, Goeze., Ent. Beytr., iii, 1, p. 87, n. 70 (1779).
154. *Papilio leonidas*.
Papilio leonidas, Fabr., Ent. Syst., iii, 1, p. 35, n. 103 (1793).
155. *Papilio porthaon*.
Papilio porthaon, Hew., Ex. Butt., iii, Pap. t. 7, f. 21, 22 (1865).
156. *Sarangesa astrigera*.
Sarangesa astrigera, Butl., P. Z. S. 1893, p. 669.
157. *Sarangesa motozi*.
Pterygospidea motozi, Wallengr., K. Sv. Vet.-Akad. Handl. (1857).
158. *Sarangesa maculata*.
Sape maculata, Mab., C. R. Soc. Ent. Belg., 1891, p. 68.
159. *Tagiades flesus*.
Papilio flesus, Fabr., Spec. Ins., ii, p. 135, n. 621 (1871).
160. *Eagris jamesoni*.
Antigonus jamesoni, Sharpe, Ann. Mag. Nat. Hist., ser. 6, vi, p. 348 (1890).

161. *Eagris ochreana*, sp. nov. (Plate III, fig. 6.)

Allied to *E. denuba*, Plötz, but differs in the following particulars; the two lower subapical hyaline spots are wanting; forewing with bronze reflections; hindwing without white area, and submarginal spots as in *E. phyllophila*, Trim.; hindwings below more ochreous in tint than *E. denuba*; black markings smaller, and apical patch but little darker than ground-colour.

Exp. 38 mm.

162. *Abantis paradisea*.

Leucochitonea paradisea, Butl., Trans. Ent. Soc. Lond., 1870, p. 499.

163. *Abantis zambesiaca*.

Hesperia zambesiaca, Westw., Thes. Ent. Oxon., p. 183, t. 34, f. 9 (1874).

164. *Abantis arctomarginata*, sp. nov. (Plate III, fig. 7.)

♂. Upperside. Forewing black with large basal red patch, between costal, and submedian nervures, and following hyaline patches; four elongated subapical, one occupying outer third of cell, and three between upper median nervule and submedian nervure, of which the middle one is the largest and much elongated. Hindwing white, base slightly reddish, edged with black; costa dull reddish; outer and inner margin narrowly bordered with black; a row of white spots within black border commencing at anal angle and becoming obsolete towards apex.

Underside. Forewing as above, but with whitish suffusion below lower median nervule; hindwing as above, but costa black.

Abdomen white with black dorsal band, and two ventral rows of black patches, terminal segment black, with reddish tuft; legs and underside of palpi reddish.

Exp. 40 mm.

Nearly allied to *A. bismarcki*, Karsch., from which it differs in the greatly elongated hyaline spot between middle and lower median nervule, and the much narrower black borders of hindwing.

165. *Hesperia dromus*.

Pyrgus dromus, Plötz, Mitth. nat. Ver. Neu. Vorpomm u Rüg, 1884, p. 6.

166. *Oxyalpus ruso*.

Pamphila ruso, Mab., C. R. Soc. Ent. Belg., xxv, p. 183 (1891).

167. *Parosmodes icteria*.
Pamphila icteria, Mab., C. R. Soc. Ent. Belg., xxv, p. 180 (1891).
168. *Cyclopides formosus*.
Heteropterus formosus, Butl., P. Z. S. 1893, p. 670, t. 60, f. 8.
169. *Cyclopides quadrisignatus*.
Cyclopides quadrisignatus, Butl., P. Z. S. 1893, p. 670, t. 60, f. 9.
170. *Kedestes callicles*.
Cyclopides callicles, Hew., Descr. Hundred New Hesp., p. 42 (1868).
171. *Chapra mathias*.
Hesperia mathias, Fabr., Ent. Syst. Suppl., p. 433 (1798).
172. *Baoris cana*, sp. nov. (Plate III, fig. 8.)
♂. Upperside. Both wings olivaceous-brown; forewing with two minute subapical hyaline spots, and two hyaline spots between upper and lower median nervules, of which the lower is the larger; fringes paler than ground-colour.
Underside. Forewing as above, but costa, apex, and outer margin widely bordered with grey; slightly tinted with violet; hindwings greyish with a violaceous tint; inner margin brown; three minute discal white points.
Exp. 38 mm.
Closely allied to *B. fatuellus*, Hopff., but may be separated by the more olivaceous tint of ground-colour of both wings above, and the hoary appearance of the underside.
173. *Andronymus neander*.
Apaustus neander, Ploetz, S. E. Z. xlv, p. 154 (1884).
174. *Perichares albicornis*.
Perichares albicornis, Butl., P. Z. S. 1896, p. 132, t. 6, f. 8.
175. *Artitropa erinnys*.
Pamphila erinnys, Trim., Trans. Ent. Soc. Lond. (3), i, p. 290 (1861).
176. *Rhopalocampta forestan*.
Papilio forestan, Cram., Pap. Ex., iv, p. 210, t. 391, f. E. F. (1782).

EXPLANATION OF PLATE III.

- FIG. 1. *Cyrestis sublineata*, sp. nov.
2. *Charaxes penricei*, Rothsch.
3. *Charaxes leoninus*, Butl., ♀.
4. *Abisara delicata*, sp. nov.
5. *Jolaus lalos*, Druce, ♀.
6. *Eagris ochreana*, sp. n.
7. *Abantis arctomarginata*, sp. n.
8. *Baoris cana*, sp. nov.



R. Mintern del. et lith.

Mintern Bros. Chromo.

Central African Rhopalocera.